

**CLAIM AMENDMENTS**

1. (Currently Amended) A primary/secondary surge protector circuit for protecting telecommunications equipment and the like from power and transient surges, comprising:

a printed circuit board;

surge protector means;

said surge protector means being mounted on said printed circuit board;

said printed circuit board having at least one tip ~~conducted~~ conductive trace formed on its surface and extending between an input terminal pin and a first internal node and having at least one ring conductive trace formed on its ~~top~~ surface and extending between an input ring terminal pin and a second internal node;

said surge protector means including voltage suppressor means operatively connected to said tip conductive trace at said first node and to said ring conductive trace at said second node; and

said tip and ring conductive traces defining fusible links which are opened when an excessive current is passed therethrough; and

each of said tip and ring conductive traces having a first wider section, a second narrow section, and a third wider section, said second narrow section being interconnected between said first and third wider sections.

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2. ~~(Original)~~ A primary/secondary surge protector circuit as claimed in Claim 1, wherein each of said tip and ring conductive traces has uniform width and height dimensions.

3. (Canceled)

4. (Original) A primary/secondary surge protector circuit as claimed in Claim 2, wherein said width and height dimensions of said tip and ring conductive traces are selected so as to correspond to a particular gauged wire size.

5. (Currently Amended) A primary/secondary surge protector circuit as claimed in Claim 3 1, wherein said second narrow section of said tip and ring conductive traces has width and height dimensions which are selected so as to correspond to a particular gauge wire size.

6. (Original) A primary/secondary surge protector circuit as claimed in Claim 1, wherein said voltage suppressor means is comprised of a silicon avalanche suppressor.

7. (Original) A primary/secondary surge protector circuit as claimed in Claim 1, wherein said voltage suppressor means is comprised of a sidactor.

8. (Original) A primary/secondary surge protector circuit as claimed in Claim 1, wherein said voltage suppressor means is comprised of a gas discharge tube.

9. (Original) A primary/secondary surge protector circuit as claimed in Claim 4, wherein said width dimension is approximately .040 inches and wherein said height dimension is approximately .0028 inches.

10. (Original) A primary/secondary surge protector circuit as claimed in Claim 5, wherein said width dimension is approximately .020 inches and wherein said height dimension approximately .0028 inches.

11. (Currently Amended) A primary/secondary surge protector circuit for protecting telecommunications equipment and the like from power and transient surges, comprising:

a printed circuit board;

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surge protector means;

said surge protector means being mounted on said printed circuit board;

said printed circuit board having at least one tip ~~conducted~~ conductive trace formed on its surface and extending between an input terminal pin and a first internal node and having at least one ring conductive trace formed on its ~~top~~ surface and extending between an input ring terminal pin and a second internal node;

said surge protector means including voltage suppressor means operatively connected to said tip conductive trace at

said first node and to said ring conductive trace at said second node;

said surge protector means further including a first heat coil operatively connected also to said first internal node downstream of said tip conductive trace and a second heat coil operatively connected also to said second internal node downstream of said ring conductive trace; ~~and~~

said tip and ring conductive traces defining fusible links which are opened when an excessive current is passed therethrough; and

each of said tip and ring conductive traces having a first wider section, a second narrow section, and a third wider section, said second narrow section being interconnected between said first and third wider sections.

12. (Original) A primary/secondary surge protector circuit as claimed in Claim 11, wherein each of said tip and ring conductive traces has uniform width and height dimensions.

13. (Canceled)

14. (Original) A primary/secondary surge protector circuit as claimed in Claim 12, wherein said width and height dimensions of said tip and ring conductive traces are selected so as to correspond to a particular gauged wire size..

15. (Currently Amended) A primary/secondary surge protector circuit as claimed in Claim ~~13~~11, wherein said second narrow section of said tip and ring conductive traces has width and height dimensions which are selected so as to correspond to a particular gauge wire size.

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16. (Currently Amended) A primary/secondary surge protector circuit for protecting telecommunications equipment and the like from power and transient surges, comprising:

a tip conductive trace formed on a surface of a printed circuit board;

a ring conductive trace formed also on the surface of the printed circuit board;

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voltage suppressor means operatively connected between said tip and ring ~~conductor~~ conductive traces for conducting in response to an excessive voltage applied across said tip and ring conductive traces; ~~and~~

said tip and ring conductive traces defining fusible links which are opened when an excessive current is passed therethrough; and

each of said tip and ring conductive traces having a first wider section, a second narrow section, and a third wider section, said second narrow section being interconnected between said first and third wider sections.

17. (Original) A primary/secondary surge protector circuit as claimed in Claim 16, wherein each of said tip and ring conductive traces has uniform width and height dimensions.

18. (Canceled)

19. (Original) A primary/secondary surge protector circuit as claimed in Claim 17, wherein said width and height dimensions of said tip and ring conductive traces are selected so as to correspond to a particular gauged wire size.

20. (Currently Amended) A primary/secondary surge protector circuit as claimed in Claim ~~18~~16, wherein said second narrow section of said tip and ring conductive traces has width and height dimensions which are selected so as to correspond to a particular gauge wire size.